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Serial No.: 10/714,097

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Scott C. Harris	Group Art Unit 2876
Appl. No.	:	10/714,097	
Filed	:	November 14, 2003	
For	:	BARCODE DATA ENTRY DEVICE	
Examiner	:	D. I. Walsh	

United States Patent and Trademark Office
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DECLARATION UNDER RULE 131

I, Scott C. Harris, do hereby declare as follows:

1. In the invention of the above referenced application, which claims priority from my first filed application 09/618,988 that was filed on July 18, 2000.
2. I conceived and began reduction to practice of the subject matter of the current claims in this application, prior to June 27, 2000, the effective date of the cited

CERTIFICATE OF FAX TRANSMISSION

I hereby certify that this correspondence and all marked attachments are being facsimile transmitted to the Patent and Trademark Office on the date shown below:

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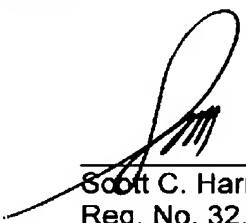
Appl. No. : 10/714,097
Filed : November 14, 2003

Schwartz reference. In fact, on June 27, 2000, this patent application was in stages of drafting.

3. I attach pages from a previous version of the patent application that eventually became this application, as well as a printout showing a date of that draft. Only the 1st, 7th and last pages are attached, but others will be provided if needed. The dates are obliterated, but each date that is listed and circled on the document is prior to June 27, 2000.

I hereby declare that all statements made herein are true, and all statements made on information and belief are believed to be true, and further that the statements were made with the knowledge that willful false statements and the like so many are punishable by fine or imprisonment, or both, under section 1001 of title 18 of the United States code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon

Date: 8/18/04



Scott C. Harris
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BARCODE.pdf	102KB	Adobe Acrob...	3:46 AM
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Attorney's Docket No. 06618/539001/CIT-3102

BARCODES

BACKGROUND

The present application relates to scanning of barcodes
5 and other type codes to enter and obtain information.

Barcodes are often used in scanning of information. A
barcode can provide information by the interface between the
white and dark bars or parts on the barcode image. Different
types of barcodes are known including universal product codes
10 (UPCs), type 39 and type 128 barcodes, as well as two-
dimensional barcodes such as the "Gettysburg Address" type
barcode and the Vbericode type code matrix.

Personal digital assistants are hand held computers.
They are typically the size that can be held in single hand of
15 the user. The entire computer, including display screen, user
interface and all other parts fits within a casing that is
typically less than 10 inches in outer diameter. The casing
can be held in a user's hand, and the user can both enter
information and read information therefrom. Certain kinds of
20 personal digital assistants also include the capability of
wireless communication.

Personal digital assistants may have the capability
of connection to a modem to obtain information from a network
such the Internet. A common personal digital assistant is the
25 Palm series, including the palm III, V and VII. The palm

Attorney's Docket No. 06618/539001/CIT-

for an image of this type provides it compression of between 3 and 5 to 1. A JPEG of 20 kilobytes is shown. Either the JPEG or the bit map may then be encrypted using a one way code.

Public key cryptography may be used. In public key cryptography, the public is given the decoding key, while only the coder knows the encoding key. Effectively this is a one way function. Only the person with the private key can actually make the images. Anyone without the private key cannot make the images. Alternatively, and at the expense of some security, Encryption algorithms often also compress the file, so if encryption is used the bit map may be sufficient.

A type 39 barcode is described herein. A typical type 39 barcode has a unlimited number of digits; each digit representative of 0-9, A-Z or any of five punctuation characters. This provides 41 possible values for each digit in the type 39 code. In order to use this code most effectively, the code is considered as a number in base 41. Each of the digits 0-9 represent 0-9, A-Z represent 10₍₄₁₎ through 37₍₄₁₎ with 38₍₄₁₎ through 41₍₄₁₎ being represented by the punctuation characters. Any subset of these values can alternatively be used, but use of base 41 provides the maximum amount of flexibility. The file indicative of the image is converted to hex (base 16) then to base 4, then to a barcode. Alternatively an eight digit code in base 41 provides about 3.27 x 10¹⁴ different possibilities. Images can be stored on

- 7 -

Attorney's Docket No. 06618/539001/CIT-

determined. Alternatively, any other kind of compression system can be used. If necessary, multiple dark codes can be used to represent an appointment.

One system uses G code type impression. G codes are described in U.S. Patent No. _____. A modified version of G code is used in which the G code information includes more information from the alpha numerics. In this way, a greater amount of information can be stored.

Other compressed forms of codes are also known. When the barcode representing the codes is scanned, it is received by the computer, and decoded into an appointment.

Other embodiments are within the disclosure.

SUMMARY

BRIEF DESCRIPTION OF THE DRAWINGS

These and other aspects will now be described in detail with respect to the accompanying drawings, wherein:

Figure 1

Figure 2

Figure 3

- 12 -